

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	9/19/2024	
	B1	ECN # 25-0294	11/3/2025	
	C1	ECN # 25-0297	11/6/2025	

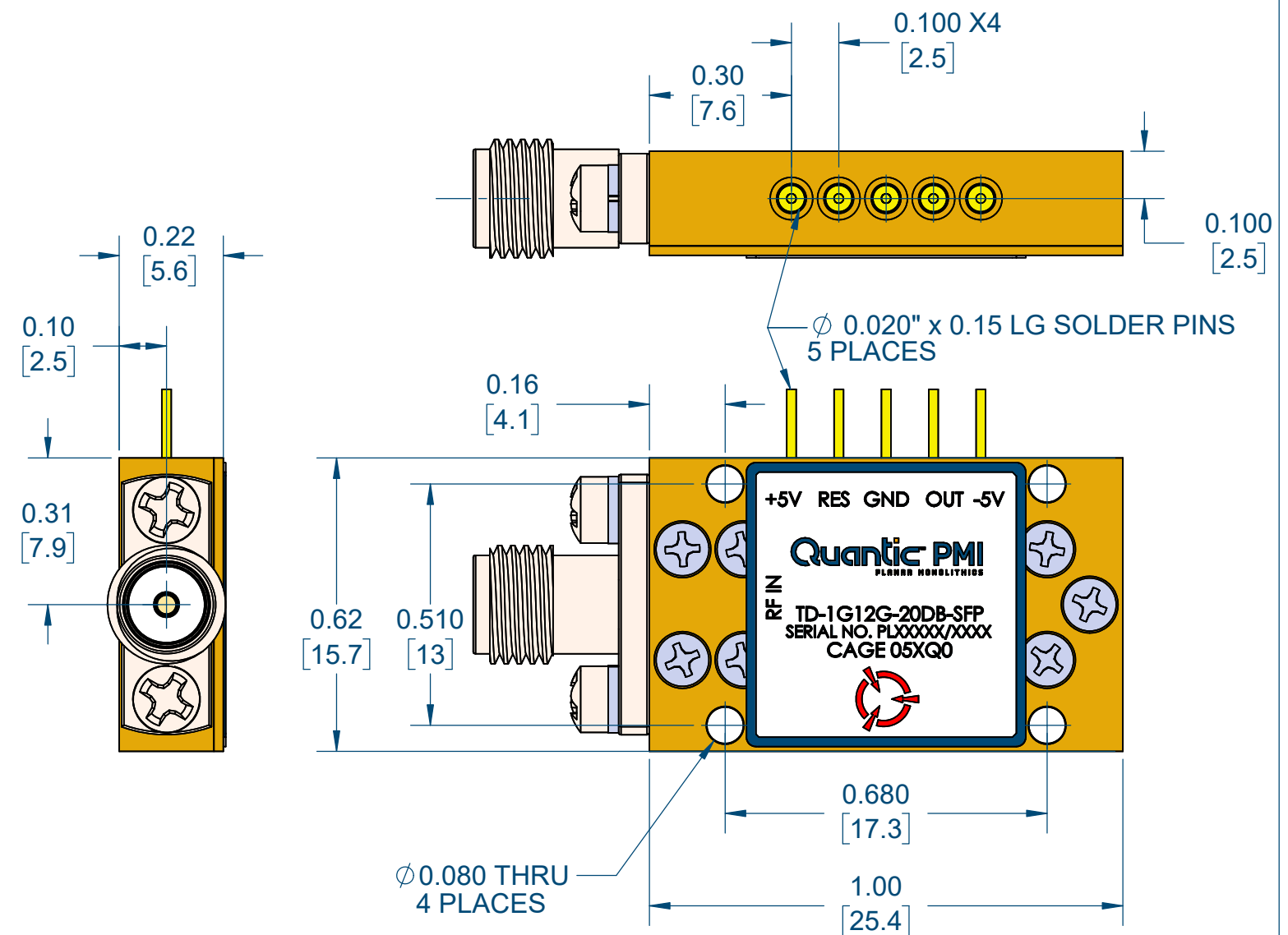
DESCRIPTION:

PMI MODEL NUMBER: TD-1G12G-20DB-SFP IS A HIGH SPEED THRESHOLD DETECTOR DESIGNED TO OPERATE OVER THE 1 GHz TO 12 GHz FREQUENCY RANGE, WITH AN ADJUSTABLE THRESHOLD LEVEL SETTING RANGE OF -25 dBm TO -5 dBm AND A VSWR OF 2.0:1 MAX. THIS UNIT COMES IN A VERY SMALL SIZE WITH A FIELD REMOVABLE SMA CONNECTOR ON THE INPUT. THIS UNIT HAS ACTIVE LOW OUTPUT.

SPECIFICATIONS:

- FREQUENCY RANGE:..... 1 GHz TO 12 GHz
- VSWR:.....2.0:1 MAX
- THRESHOLD VARIATION:.....±1.5 dBm
- RESPONSE TIME:.....50 ns MAX
- OUTPUT:..... TTL "1" INPUT POWER > THRESHOLD SETTING
TTL "0" OTHERWISE
- THRESHOLD LEVEL SETTING RANGE:.. -25 dBm TO -5 dBm
- RF INPUT :..... +10 dBm MAX
- POWER SUPPLY:..... +5V @ 75 mA
-5V @ 35 mA
- CONNECTOR IN:.....REMOVABLE SMA (FEMALE)
- CONNECTOR OUT:.....SOLDER PIN
- SIZE:.....1.00" X 0.62" X 0.22"
- FINISH:.....GOLD PLATED

MECHANICAL OUTLINE



ENVIRONMENTAL RATINGS:

- TEMPERATURE:..... 0°C TO +85°C (OPERATING)
-55°C TO +125°C (STORAGE)
- SHOCK:..... MIL-STD-202, METHOD 213B COND. B
- VIBRATION:..... MIL-STD-202, METHOD 204D COND. B
- ALTITUDE:..... MIL-STD-202, METHOD 105C COND. B
- TEMPERATURE CYCLE:..... MIL-STD-202, METHOD 107

NOTE: SPECIFICATIONS WILL VARY OVER TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± 0.02 ± .XXX ± 0.01		APPROVALS DATE DRAWN 9/19/2024 S LANGE REDRAWN ISSUED		TITLE FINAL ASSEMBLY TD-1G12G-20DB-SFP	
		SIZE B	FSCM NO. 05XQ0	DWG NO. 27049680	REV. C1
SCALE 3:1			SHEET 1 OF 1		

Quantic PMI
PLANAR MONOLITHICS

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